WHISTON RURAL DISTRICT COUNCIL

ANNUAL REPORT

by

F. W. BUNTING, M.B.E., M.D., D.P.H.
Medical Officer of Health for the Whiston Rural District

For the Year 1970

WHISTON RURAL DISTRICT COUNCIL

The Chairman and Members of the
Whiston Rural District Council

Mr. Chairman, Ladies and Gentlemen,

I have the honour to submit to you my Annual Report on the health of the Whiston Rural District for the year ended 31st December, 1970.

I am happy to report that the health of the community has remained satisfactory during the year.

The population of the District continues to increase. This in part is due to a preponderance of births over deaths and to a greater extent as a result of new houses being built in various areas; particularly in the Parish of Knowsley. The increase in population resulting from transfer from Liverpool has made it difficult to compare annual statistics with those of previous years.

The adjusted birth rate of 11.3 showed a decrease compared with the previous year and was lower than the rate for England and Wales which was 16.0. There was an increase in the number of births, there being 1,338 compared with 1,291 in 1969.

The adjusted death rate was 13.6 per thousand. The death rate for England and Wales was 11.7.

The number of deaths from cancer of the lung and bronchus increased, the rate per 1,000 being 0.50 compared with 0.34 during the previous year. This is a grim reminder of the need for everyone to appreciate the danger of cigarette smoking.

The infant mortality rate was 20 per thousand live births compared with 29 during 1969. The rate for England and Wales was 18.

I am happy to report that there were no maternal deaths.

During the year 1,126 cases of Infectious Diseases were notified and of these 931 were cases of measles.

There were 5 deaths from Pulmonary Tuberculosis and 11 cases were notified compared with 12 during the previous year.

No cases of Diphtheria or Poliomyelitis were notified.

The day to day commitments of the Public Health Inspectors continued to increase, and full details of the work of the Department will be found in the body of the report.

I am happy to report that the vacancy for the post of Deputy Medical Officer of Health was filled in March by the appointment of Dr. J. B. Clarke.

In conclusion, I would like to take this opportunity of expressing my thanks to the Health Committee for their support and encouragement during the year, and also to the Officials of the Council, in particular Mr. Corscadden, the Chief Public Health Inspector, for their assistance at all times.

I have the honour to be,

Your obedient servant

F. W. BUNTING

WHISTON RURAL DISTRICT COUNCIL

PUBLIC HEALTH DEPARTMENT

Officers:

Medical Officer of Health

F. W. BUNTING, M.B.E., M.D., D.P.H.

Deputy Medical Officer of Health

J. B. CLARKE, M.R.C.S. (Eng), L.R.C.P. (Lon), D. Obst., R.C.O.G. D.P.H.

Chief Public Health Inspector

H. CORSCADDEN, F.A.P.H.I.

ANNUAL REPORT FOR 1970

GENERAL STATISTICS

Area of the District in Acres	23,750
Population at Census - 1961	44,126
Registrar General's estimate of home population - Mid 1970 ...	86,450
Density of Population (i.e. number of persons per acre based on mid-year population)	3.6
Number of inhabited houses (1961 Census)	12,508
Number of inhabited houses (end of 1970 according to rate book)	25,091
Rateable Value	£3,211,076
Sum represented by a penny rate	£13,013

EXTRACTS FROM VITAL STATISTICS FOR THE YEAR

Live Births -	
Males: 671 Females: 649	1,320
Rate per 1,000 estimated population	11.3
Illegitimate live births per cent of total live births	6.1
Still Births -	
Males: 7 Females: 11	18
Rate per 1,000 total live and still births	13
Total live and still births	1,338
Infant Deaths (deaths under 1 year) Male: 15 Females: 12 ...	27

Illegitimate Births -

The percentage of births which were illegitimate during each of the past seven years is as follows:-

1964	3.4	1967	4.8
1965	3.5	1968	5.5
1966	3.1	1969	6.0

1970 6.1

Infant Mortality Rates -

Total infant deaths per 1,000 total live births	20
Legitimate infant deaths per 1,000 legitimate live births	21
Illegitimate infant deaths per 1,000 illegitimate live births	13
Neo-natal mortality (deaths under 4 weeks per 1,000 total live births)	15
Early neo-natal mortality (deaths under 1 week per 1,000 total live births)	14
Perinatal mortality rate (still births and deaths under 1 week per 1,000 total live and still births)	27

Maternal Mortality including abortion -

Number of deaths	NIL
Rate per 1,000 total live and still births	.000

Deaths -

Males: 373 Females: 383	756
Rate per 1,000 population - Crude	8.7
- Adjusted	13.6
Excess of births over deaths	564
Death rate from influenza per 1,000 of the population	0.06
Death rate from cancer per 1,000 of the population	1.68
Death rate from respiratory tuberculosis per 1,000 of the population	0.06
Death rate from measles per 1,000 of the population	.000
Death rate from whooping cough per 1,000 of the population	.000
Percentage of total deaths occurring in Hospitals, etc ..	69.7

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CAUSES OF, AND AGES AT, DEATH DURING YEAR 1970

	All Ages	Under 4 Weeks	4 Weeks & Under 1 Year	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75 & Over
Enteritis and other Diarrhoeal Diseases	1	-	1	-	-	-	-	-	-	-	-	-
Tuberculosis of Respiratory System	4	-	-	-	-	-	-	-	-	1	2	1
Late Effects of Respiratory T.B.	1	-	-	-	-	-	-	-	-	1	-	-
Syphilis and its Sequelae	1	-	-	-	-	-	-	-	-	-	1	-
Other Infective and Parasitic Diseases	1	-	-	-	-	-	-	-	-	-	1	-
Malignant Neoplasm, Buccal Cavity	2	-	-	-	-	-	-	-	-	-	1	1
Oesophagus	2	-	-	-	-	-	-	-	-	-	1	1
Stomach	17	-	-	-	-	-	-	-	2	6	5	4
Intestine	20	-	-	-	-	-	-	-	-	7	5	8
Larynx	1	-	-	-	-	-	-	-	-	-	1	-
Lung, Bronchus	43	-	-	-	-	-	-	1	6	11	19	6
Breast	13	-	-	-	-	-	-	2	2	3	3	3
Uterus	6	-	-	-	-	-	-	1	2	1	1	1
Prostate	4	-	-	-	-	-	-	-	-	-	2	2
Leukaemia	2	-	-	-	1	1	-	-	-	-	-	-
Other Malignant Neoplasms	33	-	-	-	1	1	1	4	4	8	7	7
Benign and Unspecified Neoplasms ...	2	-	-	-	-	-	-	-	-	1	-	1
Diabetes Mellitus	5	-	-	-	-	-	-	-	1	-	2	2
Avitaminoses	1	-	-	-	-	-	-	-	-	-	-	1
Other Endocrine Diseases	3	-	-	-	-	-	-	-	1	1	-	1
Anaemias	4	-	-	-	-	-	-	-	-	1	2	1
Other Diseases of Blood	2	-	-	-	-	-	-	1	-	-	-	1
Mental Disorders	1	-	-	-	-	-	-	-	1	-	-	-
Multiple Sclerosis	1	-	-	-	-	-	-	1	-	-	-	-
Other Diseases of Nervous System ...	1	-	-	-	-	-	-	-	1	-	-	-
Chronic Rheumatic Heart Disease ...	11	-	-	-	-	-	1	1	3	3	1	2
Hypertensive Disease	13	-	-	-	-	-	-	1	4	1	2	5
Ischaemic Heart Disease	167	-	-	-	-	-	-	6	18	43	45	55
Other Forms of Heart Disease ...	31	-	-	-	-	-	-	-	1	2	18	10
Cerebrovascular Disease	78	-	-	-	-	-	-	-	2	10	22	44
Other Diseases of Circulatory System	44	-	-	-	-	-	-	-	2	1	5	36

Influenza	5	-	-	-	-	-	-	1	-	-	3	1
Pneumonia	83	-	1	-	1	1	1	1	1	8	21	48
Bronchitis and Emphysema ...	44	-	-	-	-	-	1	-	1	10	16	16
Asthma	1	-	-	-	-	-	-	-	-	1	-	-
Other Diseases of Respiratory System	10	-	1	-	-	-	-	-	-	3	2	4
Peptic Ulcer	4	-	-	-	-	-	-	-	-	1	2	1
Intestinal Obstruction and Hernia	3	-	-	-	-	-	-	1	1	-	-	1
Cirrhosis of Liver	2	-	-	-	-	-	-	-	-	1	1	-
Other Diseases of Digestive System	6	-	-	-	-	-	-	1	1	-	1	3
Hyperplasia of Prostate	1	-	-	-	-	-	-	-	-	-	1	-
Other Diseases, Genito-Urinary System	8	1	-	-	-	-	-	1	-	-	1	5
Diseases of Musculo-Skeletal System	5	-	-	-	-	-	-	-	1	-	1	3
Congenital Anomalies	9	3	4	-	1	-	-	-	-	-	1	-
Birth Injury, Difficult Labour ..	8	8	-	-	-	-	-	-	-	-	-	-
Other Causes of Perinatal Mortality	7	7	-	-	-	-	-	-	-	-	-	-
Symptoms and Ill Defined Conditions	12	-	-	-	-	-	-	-	-	2	-	10
Motor Vehicle Accidents	10	-	-	-	1	3	2	-	2	-	1	1
All Other Accidents	21	1	-	1	-	1	1	-	1	3	2	11
All Other External Causes ...	2	-	-	-	-	1	-	1	-	-	-	-
TOTAL ALL CAUSES	756	20	7	1	5	8	7	24	58	130	199	297

DISEASES OF THE RESPIRATORY SYSTEM

The following table shows death rates per 1,000 of the population from diseases of the respiratory system which occured in the Rural District, together with corresponding data for England and Wales.

Diseases	Whiston R. D.	England & Wales
Influenza	0.06	.148
Pneumonia	0.96	.871
Bronchitis and Emphysema	0.51	.640
Other diseases of respiratory system	0.12	.100
Cancer of lung and bronchus	0.49	.618
Respiratory tuberculosis	0.06	.019

CAUSES OF ACCIDENTAL DEATHS IN AGE GROUPS - 1970

	Under 1 year	1-4 years	5-14 years	15-44 years	45-64 years	65-74 years	75 years and over	All Ages
Road Traffic Accidents	-	-	1	5	2	1	1	10
Falls	-	-	-	-	1	2	11	14
Works Accidents	-	-	-	-	1	-	-	1
Drowning	-	-	-	-	-	-	-	-
Burns	-	-	-	1	-	-	-	1
Other Accidental Deaths	1	1	-	1	2	-	-	5
TOTAL	1	1	1	7	6	3	12	31

INFANT MORTALITY -

Cause of Death	Under 1 week	1 - 2 weeks	2 - 3 weeks	3 - 4 weeks	Total under 4 weeks	1 - 3 months	3 - 6 months	6 - 9 months	9 - 12 months	Total under 1 year
Prematurity	7	-	-	-	7	-	-	-	-	7
Congenital Malformations	3	1	-	-	4	3	1	-	-	8
Post natal asphyxia and atelectasis	4	-	-	-	4	-	-	-	-	4
Pneumonia	-	-	-	-	-	-	1	-	-	1
Birth Injuries	-	-	-	-	-	-	-	-	-	-
Gastro Enteritis	-	-	-	-	-	-	1	-	-	1
Haemolytic diseases of new born	-	-	-	-	-	-	-	-	-	-
Other Diseases	4	1	-	-	5	-	1	-	-	6
TOTAL	18	2	-	-	20	3	4	-	-	27

PRINCIPAL CAUSES OF ACCIDENTAL DEATH OVER THE PAST SEVEN YEARS

Year	All causes	Road Traffic	At Work	Falls
1964	23	10	-	3
1965	24	9	2	5
1966	23	8	1	3
1967	21	11	-	5
1968	19	9	-	4
1969	20	6	-	7
1970	31	10	1	14

DEATHS FROM CANCER IN AGE GROUPS OVER THE PAST SEVEN YEARS AND RATES PER 1,000 OF POPULATION

Year	AGE GROUPS					Per 1,000 total pop'n	
	1-14	15-44	45-64	65 and over	All ages	Whiston	England and Wales
1964	2	5	27	45	79	1.43	2.21
1965	-	9	40	61	110	1.84	2.23
1966	3	9	47	48	107	1.54	2.25
1967	-	5	52	64	121	1.68	2.27
1968	-	5	58	55	118	1.55	2.32
1969	2	13	46	76	137	1.67	2.35
1970	2	11	53	79	145	1.68	2.39

DETAILS OF CANCER DEATHS OVER THE PAST SEVEN YEARS

Year		AGE GROUPS					Rate per 1,000 pop'n	Total All Ages
		1-14	15-44	45-64	65-74	75+		
1964	Stomach	-	-	2	7	2	0.20	11
	Lungs, bronchus	-	-	13	5	-	0.33	18
	Other sites	2	5	12	16	15	0.90	50
1965	Stomach	-	-	6	4	9	0.31	19
	Lungs, bronchus	-	-	9	10	1	0.33	20
	Other sites	-	9	25	16	21	1.21	71
1966	Stomach	-	1	5	7	8	0.30	21
	Lungs, bronchus	-	1	18	9	1	0.42	29
	Other sites	3	7	24	6	17	0.82	57
1967	Stomach	-	-	6	10	5	0.29	21
	Lungs, bronchus	-	-	14	9	2	0.35	25
	Other sites	-	5	32	20	18	1.04	75
1968	Stomach	-	-	6	7	4	0.22	17
	Lungs, bronchus	-	-	18	8	6	0.42	32
	Other sites	-	5	34	23	7	0.91	69
1969	Stomach	-	-	4	6	4	0.17	14
	Lungs, bronchus	-	8	8	8	3	0.34	27
	Other sites	2	5	34	31	24	1.16	96
1970	Stomach	-	-	8	5	4	0.20	17
	Lungs, bronchus	-	1	17	19	6	0.50	43
	Other sites	2	10	28	21	24	0.98	85

The following table summarises the vital statistics of the Rural District

Year	Live Births		Deaths (all causes)		Stillbirths		Maternal Mortality		Infant Mortality			
									Total		Neo-natal	
	No. registered	Rate per 1,000 pop'n (crude)	No. registered	Rate per 1,000 pop'n (crude)	No. registered	Rate per 1,000 total births	No. of deaths registered	Rate per 1,000 total births	No. of deaths registered	Rate per 1,000 live births	No. of deaths registered	Rate per 1,000 live births
1970	1320	15.3	756	8.7	18	13.5	-	.000	27	20.5	20	15.3
1969	1291	15.7	720	8.7	16	12.2	-	.000	38	29.4	27	21.0
1968	1220	16.0	622	8.2	15	12.0	-	.000	26	21.3	22	18.0
1967	1131	15.7	611	8.5	23	19.9	-	.000	29	25.6	23	20.3
1966	1179	17.0	522	7.5	12	10.1	-	.000	16	13.6	10	8.5
1965	1213	16.0	540	9.0	22	15.7	1	0.81	32	26.4	18	14.8
Average 5 years 1965/69	1207	16.1	603	8.4	18	14.0	0.2	0.16	28	23.3	20	16.3

Adjusted live birth rate (comparability factor 0.74) 11.3
Adjusted death rate (comparability factor 1.56) 13.6

VITAL STATISTICS

The following figures based on the Registrar General's 1970 birth and death returns, together with case rates for certain infectious diseases for England and Wales are shown together with corresponding data in respect of the Whiston Rural District.

	England and Wales	Whiston R.D.
	Rate per 1,000 population mid-1970	Rate per 1,000 population mid-1970
Births:		
Live births	16.0	11.3 (c)
Still births ...	13.0	13.5 (a)
Deaths:		
All causes	11.7	13.6 (c)
Tuberculosis (all forms)	.033	.06
Respiratory	.019	.06
Non-respiratory ...	.014	.000
Cancer (all forms) ..	2.390	1.68
Lungs and Bronchus ..	.618	0.50
Other cancer	1.772	1.18
Maternal mortality (total)	0.18	.000 (a)
Maternal causes (excluding abortion)	0.14	.000 (a)
Due to abortion ...	0.04	.000
Infant mortality ...	18	20 (b)
Neo-natal mortality	12	15 (b)
Notifications (corrected):		
Typhoid Fever ...	0.003	Nil
Paratyphoid Fever ...	0.004	Nil
Scarlet Fever ...	0.268	0.625
Whooping Cough ...	0.339	1.110
Diphtheria ...	.000	Nil
Smallpox ...	Nil	Nil
Measles ...	6.273	10.692
Acute Poliomyelitis (Paralytic)	.000	Nil
(Non Paralytic)	.000	Nil
Dysentery ...	0.220	0.093
Food Poisoning ...	0.154	0.046
Tuberculosis (Respiratory)	0.194	0.127
(Meninges and C.N.S.)	0.002	Nil
Other forms ...	0.048	.023
Infective Jaundice ..	0.440	0.185
Acute Meningitis ...	0.027	0.023
Ophthalmia Neonatorum	0.009	0.035
Acute Encephalitis (infective)	0.002	Nil

(a) Per 1,000 total live and still births (c) Adjusted rate
(b) Per 1,000 related births

PREVALENCE OF AND CONTROL OVER INFECTIOUS DISEASE -

Notifiable diseases during the year

Diseases	Total Cases Notified	Cases Admitted to Hospital	Total Deaths
Measles	931	3	-
Dysentery	8	Nil	-
Scarlet Fever	53	Nil	-
Acute Meningitis	2	1	-
Acute Encephalitis (Infective)	Nil	Nil	-
Typhoid Fever	Nil	Nil	-
Food Poisoning	4	3	-
Infective Jaundice	16	Nil	-
Pulmonary Tuberculosis	11	4	5
Non-pulmonary Tuberculosis	2	1	-
Whooping Cough	96	1	-
Ophthalmia Neonatorum	3	2	-

(ii) Cases of Infectious Diseases notified during the Year - 1970

Notifiable Diseases	Total Cases	0-	1-	2-	3-	4-	5-	10-	15-	25+	Age Unkown
Measles	931	71	105	135	151	125	335	7	1	1	-
Dysentery	8	1	-	1	-	-	-	2	1	3	-
Scarlet Fever	53	-	2	4	4	7	30	5	-	1	-
Acute Meningitis	2	-	-	-	-	-	-	2	-	-	-

	Total Cases	0-	5-	15-	45-	65 and over	Age Unkown
Acute Encephalitis (infective)	Nil	-	-	-	-	-	-
Typhoid Fever	Nil	-	-	-	-	-	-
Food Poisoning	4	3	-	1	-	-	-

	Total Cases	0-	1-	2-	5-	10-	15-	20-	25-	35-	45-	55-	65-	75-	Age Unknown
Infective Jaundice	16	-	-	-	8	5	1	-	1	1	-	-	-	-	-
Pulmonary Tuberculosis	11	-	-	1	1	-	1	-	4	-	1	2	1	-	-
Non-pulmonary Tuberculosis	2	-	-	-	-	-	-	-	1	1	-	-	-	-	-
Whooping Cough	96	7	15	39	31	4	-	-	-	-	-	-	-	-	-
Ophthalmia Neonatorum	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-

TUBERCULOSIS

Details of cases of Tuberculosis and of deaths from the disease during 1970 will be found in the following table:-

Age Periods (Years)	NEW CASES				DEATHS			
	Pulmonary		Non-Pulmonary		Pulmonary		Non-Pulmonary	
	M	F	M	F	M	F	M	F
Under 1 year	-	-	-	-	-	-	-	-
1 - 4	-	1	-	-	-	-	-	-
5 - 9	1	-	-	-	-	-	-	-
10 - 14	-	-	-	-	-	-	-	-
15 - 19	1	-	-	-	-	-	-	-
20 - 24	-	-	-	-	-	-	-	-
25 - 34	2	2	-	1	-	-	-	-
35 - 44	-	-	-	1	-	-	-	-
45 - 54	1	-	-	-	-	-	-	-
55 - 64	1	1	-	-	1	1	-	-
65 and over	1	-	-	-	3	-	-	-
TOTAL	7	4	-	2	4	1	-	-

FOOD POISONING

There were four cases of food poisoning notified during the year. One was due to Salmonella Virchow, one to Salmonella Agona, in one the causative organism was unknown. These cases were isolated and not connected with any food poisoning outbreaks. The fourth case was due to Salmonella Typhi-Murium and was contracted on holiday in Spain.

WATER SUPPLY

The water supplies of the district are obtained from three main sources:

Liverpool Corporation	-	Upland surface water
St. Helens Corporation	-	Deep wells
Widnes Corporation	-	Deep wells

The development of the district resulted in extensions of the water mains throughout the district as follows:

St. Helens Corporation - To New Sources

The 21" diameter watermain laid from Knowsley Pumping Station to the Eccleston Hill Pumping Station and Brown Edge Reservoirs, has now been completed and is in operation. Similarly, the three million gallon reinforced concrete reservoir under construction at the Old Crank Gun Site at Rainford is likewise now in commission.

- To New Dwellings

2" dia	-	254 yds
4" dia	-	132 yds

Widnes Corporation - To Existing Dwellings

4" dia	-	148 yds

- To New Dwellings

4" dia	-	528 yds

- To Other Development

6" dia	-	8 yds
8" dia	-	167 yds
10" dia	-	16 yds
12" dia	-	313 yds

Liverpool Corporation - To New Dwellings

4" dia.	-	1,303 yds
6" dia.	-	480 yds

To Other Development

4" dia.	-	180 yds
6" dia.	-	80 yds
9" dia.	-	125 yds
12" dia.	-	417 yds
18" dia.	-	985 yds

DRAINAGE AND SEWERAGE

Two new settling tanks and sludge drying beds were constructed at the Ramsbrook Lane sewage works, Halewood.

The following lengths of sewers were constructed throught the district during the year.

120 yds of	42" sewer
700 yds of	39" sewer
1,300 yds of	36" sewer
193 yds of	21" sewer
903 yds of	18" sewer
161 yds of	15" sewer
1,132 yds of	12" sewer
3,796 yds of	9" sewer
396 yds of	6" sewer

SUMMARY OF PUBLIC HEALTH INSPECTORS' VISITS AND NOTICES SERVED

Under Public Health Acts:		
No. of houses inspected		1,715
Visits to these houses		2,223
Under Housing Acts:		
No. of houses inspected		972
Visits to these houses		1,091
Tents, vans, sheds, etc.		16
House Lettings		464
Housing Welfare		736
Miscellaneous housing visits		218
Visits to:		
Bakehouses		6
Butchers		74
Cafes		12
Canteens		15
Dairies		5
Fried Fish Shops		42
Food preparing premises		7
Grocers		204
Greengrocers, fruiters		42
Hawkers		87
Ice Cream		17
Licensed premises		53
Slaughterhouses		64
Miscellaneous		66
Visits in connection with:		
Atmospheric Pollution		3,913
Food and Drug sampling		61
Infectious disease		306
Offices, Shops and Railway Premises Act		92
Animal Boarding Establishments		19
Factories		25
Piggeries		13
Refuse Collection and Disposal		435
Schools		22
Noise Abatement		80
Rodent Control		2,389
Civic Amenities Act		110
Swimming Pools		23
Miscellaneous		158
Defects or nuisances	No. discovered	450
	No. abated	359
No. of notices served	Informal	257
	Statutory	15
Legal proceedings	No. taken	Nil

HOUSING

One closing order was made during the year. The remaining unfit houses, which are few in number, will be dealt with as houses become available in the same parishes for rehousing of the occupants.

During the year 984 dwellings were built, 314 by this authority, 370 by other local authorities and 300 were privately built.

MOVEABLE DWELLINGS

There are 221 caravans in the Rural District, distributed over eight sites, two of which contain 160 and 40 caravans respectively, and are provided with a high standard of amenities including mains water supply, proper drainage, communal ablution and sanitary facilities, also a weekly collection of refuse.

The remaining sites are comparatively small and were in existence before the present legislation was enacted. All sites are regularly inspected.

The Rural District Council accept applications for rehousing from caravan dwellers once they have acquired the residential qualification and consider each case on its merits.

INSPECTION AND SUPERVISION OF FOOD

During the year, 690 visits were made to food premises and 136 contraventions were remedied by informal action. The types of food premises in the district are as follows:

Greengrocers and provision dealers	87
Greengrocers and fruiters (including those selling wet fish, game etc.	19
Fishmongers	2
Bakers and/or confectioners	13
Fried fish shops	13
Shops selling mainly sugar confectionery, minerals, ice-cream, etc.	31
Licensed premises, clubs, canteens, restaurants, cafes, snack bars, etc.	81
Others	8

SAMPLING OF MILK AND ICE CREAM

132 samples of raw milk were submitted for analysis. 10 were found to be positive for Brucellosis.

11 samples of pasteurised milk were found to be satisfactory on Methylene Blue and Phosphatase tests.

8 samples of sterilised milk were found to be satisfactory on Turbidity tests.

13 samples of ice cream were taken during the year and submitted for the Methylene Blue test. 9 were Grade 1, 3 were Grade 2 and 1 was Grade 3.

BRUCELLOSIS

In March 1970 Brucellosis was found in milk during routine sampling at a farm in this district. Further sampling gave a positive result from one cow in the herd. In May positive results were obtained from five cows from the same herd. In each case the farmer voluntarily sold the cows for slaughter. Later in the year all the milk produced was pasteurised before sale.

FOOD HYGIENE

During the year routine work of food hygiene enforcement was continued in conjunction with the inspections required under the Offices, Shops and Railway Premises Act.

Food hawkers trading from vehicles have continued to have special attention, particularly in the Parishes of Halewood and Knowsley. 87 visits were made to these vehicles.

SLAUGHTERHOUSE

The following table shows the number of carcases inspected and condemned at the licensed Slaughterhouse at Annexe Farm.

	Cattle excluding Cows	Calves	Sheep and Lambs	Pigs
Number killed	97	1	7	1
Number inspected	97	1	7	1
All diseases except Tuberculosis and Cysticerci:				
Whole Carcases condemned	1	-	-	-
Carcases of which some part or organ was condemned	11	1	1	-
Percentage of the number inspected with disease other than Tuberculosis and Cysticerci.	12½%	100%	14½%	-
Cysticercosis:				
Carcases of which some part or organ was condemned	1	-	-	-
Carcases submitted to treatment by refrigeration	1	-	-	-

OTHER FOODS

The inspection and examination of foodstocks during the year resulted in the condemnation of the following:

	Total quantity of stock or consignment examined and found unfit for human consumption		
	Tons	Cwts	Lbs
Meat at slaughterhouse		6	60
Retail Shops		4	12
Canned Meats			94
Other Canned Foods		1	34
Frozen Foods due to cabinet breakdown	1	5	24
Other Foods		7	0
Total	2	5	0

OFFICES, SHOPS AND RAILWAY PREMISES ACT

	CLASS OF PREMISES			
	Offices	Retail Shops	Wholesale Shops Warehouses	Catering establishments open to public canteens
(i) No. of registered premises at end of year	22	102	2	33
(ii) No. of registered premises receiving a general inspection during year	5	24	-	-
(iii) No. of exemptions current at end of year -				
Space (S.5(2)				
Temperature (S.6)	-	-	-	-
Sanitary conveniences (S.9)	-	-	-	-
Washing facilities (S.10)	-	-	-	-

Most of the premises coming within the scope of the Act are registered and inspected.

86 inspections were made during the year, a total of 69 contraventions, detailed below, were found and the majority have been remedied.

Contraventions found:

Cleanliness	19	Floors, passage and stairs	3
Temperature	7	Fencing exposed parts	
Ventilation	1	machinery	1
Lighting	5	First Aid	8
Sanitary Conveniences	10	Washing Facilities	8
		Other matters	7

NOISE ABATEMENT

There were 34 complaints of noise nuisance during the year. The majority were from domestic sources and consisted mainly of nuisance from radios played loudly at night and barking dogs. Industrial noise nuisance was caused by factory doors and windows being left open at night and factory noises causing annoyance to nearby householders. These nuisances were dealt with informally.

There were in addition complaints of noise from aircraft using Speke Airport. This authority is represented on the Liverpool Airport Consultative Committee. The Council are also members of the British Association for the Control of Aircraft Noise.

CLEAN AIR

Details of Smoke Control Orders at the end of the year are given below. A shortage of solid smokeless fuels has slowed down the scheduled programme for smoke control.

Orders in Operation at 31st December, 1969

	No. of premises	Acreage
Knowsley No. 1.	3,098	314
Whiston No. 1.	729	74
Whiston No. 2. (site of Huyton U.D.C. proposed development for overspill)	1,122 (on completion)	69
Whiston No. 3.	652	80

Orders Confirmed during the year, not yet Operative

Rainhill No. 1.	1,096	208

Measurement of Air Pollution. Brook Street Site

		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Mean
Micrammes per cu. metre	Smoke	146	127	107	69	46	29	24	49	49	80	92	-	74
	SO_2	263	211	192	136	180	156	93	144	115	148	166	-	164
Smoke/SO_2 ratio		.56	.60	.56	.51	.26	.19	.26	.34	.43	.54	.55	-	.45

These figures are made available to the Ministry of Technology and the measurements are part of a national survey on smoke and sulphur dioxide.

The table shows an improvement during 1970 compared to 1969 when the average annual figures were 112 and 194 micrammes per cubic metre for smoke and sulphur dioxide.

PREVENTION OF DAMAGE BY PESTS ACT

The following table indicates the number of inspections carried out.

	TYPE OF PROPERTY	
	Non-Agricultural	Agricultural
(a) No. of properties in district	25,905	275
(b) Total No. of properties inspected following notification	1,118	14
(c) No. of (b) infested by -		
rats	792	14
mice	286	7
(d) Total No. of properties inspected for rats and/or mice for reasons other than notification	215	60
(e) No. of (d) infested by -		
rats	105	60
mice	105	30

The routine control work was maintained throughout the year and the number of rats kept to a minimum. Sewer treatment in the district indicated that the rat population is being kept within reasonable limits.

OFFENSIVE TRADES

The only offensive trade which exists in the district is that of a tripe boiler. Routine inspections show that the premises are kept in a satisfactory manner.

PUBLIC CLEANSING

A weekly collection from domestic premises and a more frequent collection from schools, hospitals and some commercial premises is still maintained.

A works study based incentive bonus scheme which gives substantial bonuses for increased efficency in refuse collection was introduced towards the end of the year. It is hoped that one of the results of the scheme will be to reduce absenteeism, which still remains a problem.

4,094 plastic sacks and 172 bulk containers were in use at the end of the year.

During the last nine months of the year there has been joint refuse disposal by Whiston R.D.C., Huyton U.D.C., and Prescot U.D.C. at Huyton U.D.C's refuse tip in Whiston Parish.

FACTORIES ACT, 1961

1. INSPECTIONS for purposes of provisions as to health.

PREMISES	Number on Register	Inspections	Written Notices	Occupiers prosecuted
(i) Factories in which sections 1,2,3,4 and 6 are to be enforced by Local Authorities	-	-	-	-
(ii) Factories not included in (i) in which Section 7 is enforced by the Local Authority	71	25	-	-
(iii) Other premises in which Section 7 is enforced by the Local Authority (excl. out-workers' premises)	23	10	-	-
TOTAL	94	35	-	-

2. CASES in which DEFECTS were found

PARTICULARS	Number of cases in which defects were found				Number of cases on which prosecutions were insituted
	Found	Remedied	Referred To H.M. Inspector	Referred By H.M. Inspector	
Want of cleanliness (s.1)	-	-	-	-	-
Overcrowding (s.2)	-	-	-	-	-
Unreasonable temperature (s.3)	-	-	-	-	-
Inadequate ventilation (s.4)	-	-	-	-	-
Ineffective drainage of floors (s.6)	-	-	-	-	-
Sanitary Conveniences (s.7)	-	-	-	-	-
(a) Insufficient	-	-	-	-	-
(b) Unsuitable or defective	3	3	-	-	-
(c) Not separate for sexes	-	-	-	-	-
Other offences against the Act (not including offences relating to out-work)	-	-	-	-	-
TOTAL	3	3	-	-	-